- 1. Enhanced-surface-area spinal fusion apparatus adapted for use between an
- upper vertebral body having an inferior vertebral endplate and a lower vertebral body having a superior endplate, the distance between the endplates defining at least one
- 4 intervertebral spacing, the device comprising:
 - a biocompatible fusion device having a height which is greater than the
- 6 intervertebral spacing such that when implanted, at least a portion of the device penetrates into one or both of the upper and lower vertebral bodies; and
- 8 a fastener configured to extend through the device and the vertebral body into which the fusion device extends.
- 2. The apparatus of claim 1, wherein the fusion device includes an aperture 2 adapted to receive the fastener.
 - 3. The apparatus of claim 1, wherein the fastener is treaded.
- 4. The apparatus of claim 1, further including a guide for aligning the 2 insertion of the fastener.
- 5. The apparatus of claim 4, wherein the guide is mountable on the fusion device.

the steps of:

- 6. The apparatus of claim 4, wherein guide may be used for drilling and 2 installation of the fastener.
- 7. A method of promoting the fusion between upper and lower vertebra, each vertebra having a body between superior and inferior endplates, the method comprising
- removing a section of the upper vertebra, the lower vertebra, or both vertebra, including a portion of its respective endplate;
- 6 installing the a fusion device between the vertebra so as to substantially consume the removed sections; and
- 8 installing a fastener through the through the fusion device and each vertebra into which the fusion device extends.
 - 8. The method of claim 7, further including the steps of:
- temporarily installing an alignment guide; and installing the fastener using the guide.
- 9. The method of claim 8, wherein the alignment guide is mounted on the 2 fusion device.
 - 10. The method of claim 8, wherein the alignment guide is used for drilling

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2 and orienting the fastener.